IMPROVED CMOS TRANSISTORS AND METHODS OF FORMING SAME <u>Abstract of the Invention</u>

The present invention teaches the formation of CMOS transistors using interfacial nitrogen at the interface between the lightly doped extension regions and an overlying insulating layer in combination with a capping layer of silicon nitride, both prior to the final source/drain anneal. Doses and energies may be increased for the P-channel lightly-doped drain, source and drain regions. The resulting transistors exhibit desirably high drive current and low off-state leakage current and overlap capacitance.